

ORIGINAL

United States Courts
Southern District of Texas
FILED

JAN 02 2003

Michael N. Milby, Clerk

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF TEXAS
HOUSTON DIVISION

UNITED STATES OF AMERICA

V.

JORGE LUIS GARZA, a.k.a. Guillermo
Huertas-Sanchez a.k.a. Mono Renzo

§
§
§
§
§
§

CRIMINAL NO. H-99-455SS
JUDGE LEE H. ROSENTHAL

**MOTION AND MEMORANDUM SEEKING TO EXCLUDE DEFENSE EXPERT
WITNESS TESTIMONY; MEMORANDUM IN SUPPORT OF ADMISSIBILITY OF
GOVERNMENT'S EXPERT WITNESS' TESTIMONY**

UNITED STATES OF AMERICA, by and through Michael T. Shelby, United States Attorney for the Southern District of Texas, hereby moves this honorable Court, pursuant to Evidence Rule 702 and *Daubert v. Merrell Dow Pharmaceuticals, Inc.*, 509 U.S. 579 (1993), to conduct a hearing outside of the presence of the jury and to thereafter exclude the testimony of Al Yonovitz, Ph.D., on behalf of defendant in the instant case upon the subject of aural-spectrographic analysis. In support of said motion, the Government offers the following law and argument.

I.

Federal Rule of Evidence 702 states that a witness qualified as an expert may offer an opinion based upon scientific and technical knowledge possessed by the witness if such testimony would assist the trier of fact and if,

“(1) the testimony is based upon sufficient facts or data, (2) the testimony is the product of reliable principles and methods, and (3) the witness has applied the principles and methods reliably to the facts of the case.”

Interpreting this rule, the Supreme Court of the United States has stated that, “The focus, of course,

0236261

must be solely on the principles and methodology, not on the conclusions that they generate.” *Daubert*, supra at 595. While Federal Rule of Evidence 104 places upon the court the obligation of determining the admissibility of evidence, the proponent of the evidence sought to be admitted must establish admissibility by a preponderance of evidence. *Bourjily v. United States*, 483 U.S. 171 (1987).

II.

In the instant case, both the Government and the Defendant intend to offer the trier of fact expert testimony on the subject of aural-spectrographic analysis. Pursuant to the above authorities, the testimony of Defendant’s expert must necessarily be excluded due to a failure to conduct his examination in accordance with current scientific standards which control aural-spectrographic analysis of auditory evidence. *United States v. Williams*, 583 F.2d 1194, 1198 (CA2 1978), as cited in *Daubert*, at p. 594.

As can be seen in the report of Government’s expert witness Special Agent Ryan O. Johnson, a copy of which is attached hereto as “Exhibit A”, in his aural and spectrographic analysis of the recorded evidence herein, Special Agent Johnson followed the guidelines established and maintained by the American College of Forensic Examiners (ACFE), the American Board of Recorded Evidence (ABRE), and the Audio Engineering Society (AES). Special Agent Johnson’s methodology is meticulously cataloged in paragraphs one (1) through ten (10) of the Details section of his report.

In contrast, from the report of Defendant’s proffered expert Yonovitz, a copy of which is attached hereto as “Exhibit B”, Yonovitz purports to have utilized the guidelines established by the International Association of Identification (IAI), in his aural and spectrographic analysis of the

recorded evidence collected in this case. However, upon examination of Yonovitz, the Court will learn that the IAI does not currently maintain any standards controlling the operation of aural and spectrographic analysis of evidence, and has not done so for years. As stated by the Court in *Daubert*,

“Widespread acceptance can be an important factor in ruling particular evidence admissible, and “a known technique which has been able to attract only minimal support within the community,” *United States v. Downing*, 753 F.2d 1224, at 1238, may properly be viewed with skepticism. The inquiry envisioned by Rule 702 is, we emphasize, a flexible one. Its overarching subject is the scientific validity and thus evidentiary relevance and reliability of the principles that underlie a proposed submission.” *Daubert*, at pp. 594-595.

It is precisely Yonovitz’ failure to operate in accordance with scientifically accepted standards of analysis which resulted in the exclusion of his testimony by the Honorable Judge Nancy F. Atlas in *United States v. Willie Early Jackson*, Case No. H-00-199, (2000). As stated by Judge Atlas in her ruling from the bench excluding Yonovitz’ testimony,

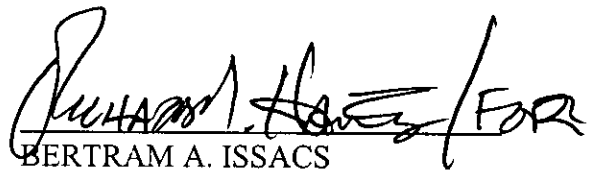
“[F]or this science to become accepted in the court of law, standards need to be met; and if you can’t meet the standards, the discipline teaches you you do not give an opinion for the purpose of testimony. Testimony like Dr. Joe – or Mr. Joe or Dr. Yonovitz want to give here will ruin, ruin the science and the movement that I think he believes in and that frankly I think has some merit in proper settings.” *Jackson*, supra at partial transcript p. 138, a copy of which is attached hereto as “Exhibit C”.

III.

WHEREFORE, the United States respectfully requests that this Honorable Court conduct a hearing outside the presence of the jury requiring Defendant to prove the reliability of the standards followed by Dr. Yonovitz in conducting the examination of the evidence herein, and thereafter, the Court exclude defendant's expert testimony on the subject of aural-spectrographic analysis.

Respectfully submitted,

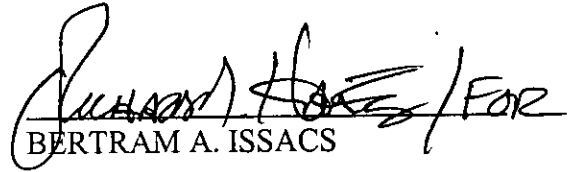
MICHAEL T. SHELBY
United States Attorney

A handwritten signature in dark ink, appearing to read "Bertram A. Issacs" followed by a large, stylized flourish or mark that resembles "FOR".

BERTRAM A. ISSACS
Assistant United States Attorney
910 Travis, Suite 1500
Houston, Texas 77028
(713)567-9000
Fax:(713)718-3300

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing was sent to counsel for Defendant, J.A. Salinas, III, Attorney at Law, 12 Greenway Plaza, Suite 1100, Houston, Texas (77046), by fax to (713)227-4510 on January 2, 2003, and by regular U.S. mail, postage prepaid, on or before the date of filing.

 FOR
BERTRAM A. ISSACS

REPORT OF INVESTIGATION

Page 1 of 5

1. Program Code	2. Cross File <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Related Files	3. File No. M3-97-0178	4. G-DEP Identifier XNC11
5. By: S/A Ryan Johnson At Houston F.D.			6. File Title VALLEJO, Javier	
7. <input type="checkbox"/> Closed <input type="checkbox"/> Requested Action Completed <input type="checkbox"/> Action Requested By:			8. Date Prepared 12/11/01	
9. Other Officers:				
10. Report Re: Voice Identification Report				



SYNOPSIS

This report entails the results of a voice identification analysis, conducted by Special Agent (S/A) Ryan Johnson. The purpose of the analysis is to determine whether or not the voice on government audio exhibit N-14 is similar or different to the voice of Jose Luis GARZA. S/A Johnson has been trained extensively in forensic audio/video, which includes voice identification. The voice identification method involves aural and spectrographic analysis. S/A Johnson followed guidelines established by American College of Forensic Examiners (ACFE), the American Board of Recorded Evidence (ABRE) and the Audio Engineering Society (AES) regarding voice identification analysis. These standards are recognized in federal and state courts throughout the United States.

DETAILS

1. Voice Identification Experts are required to work within the perimeters established by the ACFE. After an analysis is completed, an expert can make one of seven decisions, which are identification, probable identification, possible identification, inconclusive, possible elimination, probable elimination, or elimination. The aforementioned decisions are made after the aural and spectrographic analysis is completed. An aural comparison involves critical listening by the examiner, which determines whether the voice on the known and the unknown audio are similar or different. Characteristics such as pitch, pronunciation, accent, rate of speech, breathing patterns and speech impediments are apart of the critical listening process. Spectrographic analysis involves the visual comparison of the patterns produced by the

11. Distribution: Division	12. Signature (Agent) Ryan Johnson	13. Date 12/11/01
District	14. Approved (Name and Title) Jeffrey Grabowski Group Supervisor	15. Date 12/21/01
Other ST		

DEA Form - 6
(Jul. 1996)

DEA SENSITIVE
Drug Enforcement Administration

1 - Prosecutor

0231

REPORT OF INVESTIGATION (Continuation)	1. File No. M3-97-0178	2. G-DEP Identifier XNC1I
	3. File Title VALLEJO, Javier	
4. Page 2 of 5		
5. Program Code	6. Date Prepared 12/11/01	

speech sounds from the known and unknown audio. It is an exercise in pattern matching. The following statements explain how a decision is arrived at:

Identification-At least 90% of all the comparable words must be very similar aurally and spectrally, producing not less than twenty (20) words. Each word must have three (3) or more useable formants.

Probable Identification-At least 80% of the comparable words must be very similar aurally and spectrally, producing not less than fifteen (15) matching words. Each word must have two (2) or more formants.

Possible Identification-At least 80% of the comparable words must be very similar aurally and spectrally, producing not less than ten (10) matching words. Each word must have two (2) or more formants.

Inconclusive-Falls below either the Possible Identification confidence levels and/or the examiner does not believe a meaningful decision is obtainable due to various limiting factors. Comparisons that reveal aural similarities and spectral differences, or vice versa, must produce an inconclusive decision.

Possible Elimination-At least 80% of the comparable words must be very dissimilar aurally and spectrally, producing not less than ten (10) words that do not match. Each word must have two (2) or more useable formants.

Probable Elimination-At least 80% of the comparable words must be very dissimilar aurally and spectrally, producing not less than fifteen (15) words that do not match. Each word must have two (2) or more useable formants.

Elimination-At least 90% of the comparable words must be very dissimilar aurally and spectrally, producing not less than twenty (20) words that do not match. Each word must have three (3) or more useable formants.

U.S. Department of Justice
Drug Enforcement Administration

REPORT OF INVESTIGATION <i>(Continuation)</i>	1. File No. M3-97-0178	2. G-DEP Identifier XNC11
	3. File Title VALLEJO, Javier	
4. Page 3 of 5		
5. Program Code	6. Date Prepared 12/11/01	

2. On October 25, 2001, Task Force Officer (TFO) Genni Ruzzi provided S/A Johnson with audio exhibit N-14, and a transcript of the conversation in question. Exhibit N-14 is a standard DEA U.S. Government tape that contains conversations from a Title III wiretap. Since S/A Johnson did not personally record the tape, it will be referred to as the "Unknown."

3. S/A Johnson visibly examined the condition of the unknown tape and determined that it was in good condition. S/A Johnson initialed and scanned the face of tape into the computer and made color prints. S/A Johnson determined the proper speed of the tape, aligned the azimuth, and downloaded the audio into the computer. The downloading process is referred to as analog to digital conversion. After listening to the unknown audio for numerous hours, S/A Johnson chose the words and or phrases that could be used to develop spectrograms and take a voice exemplar. Spectrograms are also referred to as voiceprints. The spectrograms taken from N-14 are referred to as the "unknown spectrograms." The following words and or phrases from exhibit N-14 were selected to make spectrograms:

Unknown Statement #1 occurs approximately 58 seconds into the conversation

Spanish-Claro, hermano. Eso es de...Hermano, son tres dos cientos exacto,

English-Right, man. That's...Man, it's exactly three two hundred, man.

Unknown Statement #2 occurs approximately 5:22 into the conversation

Spanish-OK, esta'a nombre de Mauricio Gutierrez.

English-OK, it's in the name of Mauricio Gutierrez

Unknown Statement #3 occurs approximately 6:05 into the conversation

Spanish-Diez quince cero cero veintiocho treinta y cuatro seis sesenta

English-Ten fifteen zero zero twenty eight thirty four sixty six

4. On November 15, 2001, S/A Johnson received a fax copy of the court order from Assistant United States Attorney (AUSA) Bert Isaac's, that ordered Jose Luis GARZA to give the government a voice exemplar. S/A

REPORT OF INVESTIGATION (Continuation)	1. File No. M3-97-0178	2. G-DEP Identifier XNC1I
	3. File Title VALLEJO, Javier	
4. Page 4 of 5		
5. Program Code	6. Date Prepared 12/11/01	

Johnson then contacted Mr. GARZA's attorney to schedule a time and location to take the exemplar. Mr. GARZA's attorney is Joe Salinas.

5. S/A Johnson conducted the exemplar on November 19, 2001, at the Federal Building, 515 Rusk, Houston, Texas. Joe Salinas was with Mr. GARZA during the exemplar. Present with S/A Johnson was Mr. Martin Valencia, who is the Program Manager for the Translation Company that is currently contracted by DEA. Mr. Valencia assisted S/A Johnson with the exemplar because of his proficiency with the Spanish language. Mr. Valencia is particularly familiar with the pronunciation of words, accents, and colloquialisms that are unique to native Colombians. The exemplar was taken over the telephone, because exhibit N-14 is a recorded telephone conversation.

6. The exemplar was recorded on a standard DEA U.S. Government tape. This tape is referred to as the "Known." The known tape consist of the entire exemplar recorded by S/A Johnson. After the exemplar, S/A Johnson took the known tape back to the laboratory, processed it according to DEA standards, and downloaded the audio into the computer. After the downloading process was completed, S/A Johnson developed the "known spectrograms."

7. The unknown spectrograms had a considerable amount of noise, but not enough to camouflage the speech patterns. S/A Johnson removed some of the noise by using filtering techniques. The known spectrograms had a hum that was produced by the telephone line at the Federal Building, but the hum did not interfere with the speech patterns.

8. S/A Johnson's aural analysis revealed that the voice on the known audio exhibit sounds very similar to the voice on the unknown audio exhibit. Mr. GARZA's pitch, pronunciation, accent, colloquialism, and rate of speech are very similar to that of the unknown audio exhibit. S/A Johnson also conferred with Mr. Valencia regarding the pronunciation of words, accents, and colloquialisms that are unique to Colombian speakers. Mr. Valencia listened to the unknown and known audio exhibit and determined that the voice in the unknown and the known exhibits sounds very similar as well.

REPORT OF INVESTIGATION <i>(Continuation)</i>	1. File No. M3-97-0178	2. G-DEP Identifier XNC1I
	3. File Title VALLEJO, Javier	
4. Page 5 of 5		
5. Program Code	6. Date Prepared 12/11/01	

9. S/A Johnson's spectrographic analysis produced the following results: Out of the twenty (23) words that were spoken by Mr. GARZA during the exemplar, fifteen (15) of the words had two (2) or more matching formants in the unknown and known; four (4) of the words had one (1) matching formant in the unknown and known; four (4) of the words had no matching formants.

10. Based S/A Johnson's aural and spectrographic analysis, which are perscribed by the ACFE, it is highly probable that the voice on the unknown exhibit is the same as Mr. GARZA's voice.

INDEXING

GARZA, Jose Luis-Naddis #3944994

FROM : Yonovitz & Joe, LLP

FAX NO. : 405-348-5847

Nov. 12 2002 07:53PM P2

**YONOVITZ & JOE, L.L.P.***Forensic Tape Analysis**Experts and Consultants*

P.O. Box 702287

Dallas, TX 75370

Al Yonovitz, Ph.D., CCC-A
Herbert Joe, M.A., J.D., B.C.F.E.,
O.A.B.F.E., O.A.B.L.E.E., P.A.C.F.E.

214/503-TAPE
405/043-TAPE

November 12, 2002

Mr. J.A. Salinas, III, Esq.
12 Greenway Plaza, Ste. 1100
Houston, Texas 77046

RE: U.S. vs. Jorge Luis Garza, Criminal No. H-99-455-S-02;
In The Southern District of Texas, Houston Division

TO WHOM IT MAY CONCERN:

I. INTRODUCTION.

Yonovitz & Joe, L.L.P. was retained by Mr. Joe A. Salinas, III, Esq. to perform voice/speaker identification or elimination via aural-spectrography analyses. Aural-spectrographic analyses were accomplished that compared the audio signals from the UNKNOWN exemplar with that of the KNOWN exemplar (both described below).

II. CONCLUSION.

Based partly on the guidelines promulgated by the International Association of Identification¹ (IAI), the current status of this topic within the scientific community, as well as aural analyses, there is a PROBABLE ELIMINATION of Mr. Jorge Luis Garza as the male speaker on the UNKNOWN exemplar. In other words, Mr. Jorge Luis Garza is not likely the male speaker from the particular ("unknown") recording analyzed. Such elimination is based on both spectrographic results and forensic aural/linguistic analyses.

III. TAPE AND CONTENT DESCRIPTION.

The UNKNOWN EXEMPLAR is labeled "UNKNOWN" on a CD-ROM labeled "M3-97-017B." This CD-ROM has been held out as a made by the government for Mr. Jorge Luis Garza's defense attorney. There are eight tracks on this CD-ROM, with track 1 being the "UNKNWON" exemplar. Track 2 is purportedly the "KNOWN" exemplar made by the government in the government's voice comparison. The KNOWN exemplar was made by Yonovitz & Joe, L.L.P. on October 15, 2002 at the U.S. Marshall's Office in the presence of Mr. Salinas and a representative of the U.S. Marshall's Office.

IV. METHOD AND ANALYSES.

Aural-Spectrographic. The aural-spectrographic method determined whether Mr. Jorge Luis Garza, based on the recording described above, is the same speaker as a particular speaker on the UNKNOWN recording. This method is based upon the general principles that

¹ The undersigned, a professor of the speech and hearing sciences, is a former member of the certification and standards committee of the IAI.

FROM : Yonovitz & Joe, LLP

FAX NO. : 405-348-5847

Nov. 12 2002 07:54PM P3

have been promulgated by the International Association of Identification (IAI). Essentially, this method permits a decision that is based along a continuum of Elimination and Identification. Probabilistic values are determined and stated in terms of positive elimination, probable elimination, probable identification, and positive identification. The examiner may also determine that the taped recordings are not of significant quality or quantity to offer a valid conclusion.

Spectrographic Analysis. Spectrograms were compared for several features, which may include fundamental frequency, steady state formant analysis, formant transition analysis and acoustic features common to each spectrogram. Spectrographic features may include speaking fundamental frequency (F0), perturbation analysis, formant position and bandwidth, and transitional duration.

Aural Analysis. The exemplars were compared via phonetic analysis. Also, other features, e.g., timing, linguistic and non-linguistic features, were compared. The fundamental frequency for the KNOWN voice was notably higher compared to the UNKNOWN. The resonant (overtone structure) quality was also remarkably different for the KNOWN and UNKNOWN exemplars. Dialectical patterns were also different.

Results. Both exemplars or recordings were of high enough intelligibility and quality to permit valid aural and spectrographic analyses. The signal-to-noise ratios (S/N) for the exemplars were also of sufficient levels to allow voice comparisons. The KNOWN exemplar of Mr. Jorge Luis Garza was *probably eliminated* when compared to the UNKNOWN exemplar. In other words, the speaker identified as Mr. Jorge Luis Garza is not likely the same as the speaker of the UNKNOWN exemplar.

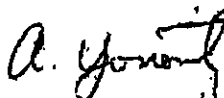
Equipment Utilized. All recordings were recorded or played back on Nakamichi or Sony professional tape recorders. The spectrographic and pitch analyses were made with a Pentium IV-based computer. The audio signals were digitized at 44100 Hertz, 16-bit resolution. Appropriate anti-aliasing filters were utilized when needed. A software program (CSRE, AVAAZ systems) determines each spectrogram and pitch measures.

DEA S/A Ryan Johnson has proffered a report dated Dec. 11, 2001 in which he (along with Program Manager Martin Valencia) concludes a "highly probable" identification of his "KNOWN" exemplars with the above-described "UNKNOWN" exemplar. The undersigned reserves the right to supplement this report with a detailed explanation of how and why the Johnson-Valencia report is flawed procedurally and as to its results.

Sincerely,

YONOVITZ & JOE, LLP.

Forensic Tape Analysis, Experts and Consultants



Al Yonovitz, Ph.D., CCC-A

Associate Prof., Speech and Hearing Sciences

Clinical Audiologist/Forensic Scientist



1 THE COURT: Thank you. You may step down.

2 THE COURT: Okay. Any other witnesses, Mr. Taylor?

3 MR. TAYLOR: No, Your Honor.

4 THE COURT: Okay. Mr. Pechacek, you're done?

5 MR. PECHACEK: Yes, Your Honor.

6 THE COURT: Okay. We're going to take a little
7 break and I'm going to come back and I'm going to come back in
8 half an hour and I will issue a ruling. Thank you all.

9 I should say this: Does anybody want to make
10 any argument on any of this, brief, for five minutes max? Do
11 you want to? I failed to ask that.

12 MR. PECHACEK: Yes, Your Honor.

13 THE COURT: Okay.

14 MR. TAYLOR: We'll yield to the state, Judge.

15 THE COURT: You'll yield to the state?

16 MR. TAYLOR: Yes, ma'am.

17 THE COURT: Okay. You-all can be seated then.
18 We'll have that.

19 MR. PECHACEK: It's very simple, Judge. They are
20 attempting to put on an expert witness to testify concerning
21 voice identification and they're putting on someone that is
22 holding himself out as an expert in the field, yet he is not
23 complying with the requirements of the field.

24 Further, the report that he issued, that's
25 been issued by both of them is almost a fraud. It actually

1 is a fraud taken in context of what examiners of this type
2 require. So, in using a Daubert analysis, Your Honor, we
3 look to reliability, No. 1, and then you look to relevance,
4 No. 2.

5 And in this case, Judge, what you find is that
6 significant extreme false statements have been made. The
7 methodology that has been employed in this case by the expert
8 witnesses hired by the defense do not come close to even -- it
9 doesn't even come close to the methodology which is called for
10 by the boards in this field, that is, voice identification.

11 Daubert requires that the information be
12 reliable. The Fifth Circuit in its opinion, which I cite,
13 Posada, specifically refers to polygraph or voice
14 examination. And they say that you have to have some type of
15 quantifiable objective method for determining a rate of
16 error. That is something they give as a specific precise
17 example. And, Judge, they haven't done that. They haven't.
18 They haven't put forward anything.

19 Further, if you recall the testimony of
20 Dr. Nakasone, he said the scientists in this field say you
21 cannot come up with that. Judge, clearly under Daubert they
22 haven't met the first prong. They haven't met reliability.

23 Further, Your Honor, with regard to relevance,
24 applying the science to the facts of this case, in making
25 their tape recording, they have not made it relevant because

1 they haven't recorded it in the same way. They used a tape
2 recorder, a microphone right up to his mouth when it was a
3 Kell recorder that was a beeper on somebody's belt. And the
4 fellow that we're saying said the words were in the car. They
5 haven't even come close.

6 Further, it was transmitted over a telephone.
7 And Dr. Nakasone has told you that telephone companies have
8 some type of -- something that limits the ability to record
9 the physical characteristics of the voice. He said that. I
10 don't know what words he used. I can't remember that.

11 Judge, in applying what they have to the facts
12 of this case, their evidence is not relevant either. But most
13 importantly, Judge, the Fifth Circuit in Kumho Tire, which is
14 the Supreme Court of the United States, in 1999, have
15 recognized the gatekeeping function of the courts. And what
16 they tell you is this: Somehow you have to look at what
17 they're saying and you have to realize that expert witnesses
18 going before a jury are going to be trusted and believed by a
19 jury because they are holding themselves out as experts. They
20 are giving objective scientific reasons for saying what they
21 are saying. And a jury is going to listen to them, and
22 they're going to believe them. They're going to think --
23 they're going to think these people are smarter than us, they
24 know more about this than we do, and they're going to assign
25 greater weight to what they say. And that's how it should

1 be. But you have to have valid expert testimony before you
2 can do that. And you don't have it here. I think that sums
3 it up.

4 MR. TAYLOR: Judge, if it please the Court, we, of
5 course, beg to differ with the state's position as to whether
6 or not the person that the Court heard this morning is, in
7 fact, an expert. The case as set forth indicates that a
8 person who has information that is relevant may testify. A
9 person who has a particular knowledge, a particular skill, a
10 particular educational background is in a position to testify
11 any time that information as disseminated will aid the trier
12 of facts in making a conclusion.

13 It is our position that the witness that we set
14 forth this morning has the education, has the experience, has
15 the background, has the knowledge to form the opinion that he
16 used. The question that I asked him earlier as relevant to
17 the IAI has been all and end all as to what a person must use
18 in making the conclusion that he did. He said in addition to
19 this IAI, he has a trained ear, Judge. I think the degree
20 that he has, the education that he has, the experience that he
21 has allows him, in addition to using the machine, to form the
22 conclusion that he did. I don't think anything is wrong with
23 his conclusion, based on his knowledge and based on his
24 expertise.

25 I think that it would be quite relevant to allow

1 him to testify before the jury, because no doubt he is an
2 expert. He has written extensively. He has given lectures
3 extensively. He has practiced in the field extensively. He's
4 worked for the IRS. He's worked for the FBI. He's worked for
5 the Customs. He's worked for the City of Houston Police
6 Department. He's worked for Harris County District Attorney's
7 Office. All of those persons, Judge, all of those persons
8 have used him as an expert. And I think to allow him to
9 testify in this particular case as an expert will assist the
10 jury in making a conclusion as to whose voice is actually on
11 that tape. And we're asking the Court to allow him to do
12 that.

13 THE COURT: Okay. Thank you all. I'll be back here
14 at about 5 of 1:00.

15 (12:35, recess.)

16 THE COURT: Please be seated.

17 I have taken this break and reviewed the
18 evidence, reviewed the standards, the testimony that has been
19 provided to me both by Mr. Joe and Dr. Yonovitz as well as
20 Dr. Hirotaka Nakasone from the FBI and Mr. Williams, Larry
21 Williams, from the Houston Police Department. The testimony
22 that I am going to rely on for the purposes of these findings
23 and conclusions is primarily the testimony of Dr. Yonovitz and
24 somewhat Dr. Nakasone. He provided us with background
25 information. Some of the technical information that I got

1 from him is helpful, and I do rely on it. However, I'm not
2 relying very much on Mr. Joe's testimony. It was very
3 general. Mr. Joe's certifications are in serious question and
4 I think by the time that the hearing evolved to today, the
5 defendant intended to rely on Dr. Yonovitz. I will say that I
6 found a significant qualitative difference in the expertise
7 and the ability to explain matters between those two
8 gentlemen.

9 This is a case that is governed -- the procedure
10 here is governed by Daubert. It's governed specifically by
11 the case of Daubert versus Merrell Dow Pharmaceuticals, Inc.,
12 509 U.S. 579, 1993, and Kumho Tire versus Carmichael, 119
13 S.Ct. 1167, 1178, 1999, and, of course, Rule 702 of the
14 Federal Rules of Evidence.

15 Under Rule 702, a witness qualified as an expert
16 by knowledge, skill, experience, training, or education may
17 testify in the form of an opinion or otherwise. These cases
18 make it clear that the trial judge must determine as an
19 initial matter whether the proffered witness is qualified to
20 give the expert opinion he seeks to express.

21 Procedurally if I determine that the expert has
22 sufficient knowledge, experience, et cetera, then I must
23 determine whether the testimony that is proffered will, No. 1,
24 qualify as scientific, technical, or other specialized
25 knowledge; and, 2, if the opinions will assist the trier of

1 fact to understand the evidence or resolve a disputed factual
2 issue. Kumho Tire, 119 S.Ct. At 1174 and Daubert at 589.
3 Watkins versus Telsmith 121 F.3d 984, 989, Fifth Circuit
4 1997.

5 The first inquiry focuses on whether the
6 proffered evidence is scientifically valid and thus
7 sufficiently reliable. The second inquiry is basically a
8 relevance inquiry. See Daubert at 590-91 and Tanner versus
9 Westbrook. I don't have -- it's a F.3d cite, Fifth Circuit
10 1999, and Watkins at 989.

11 The burden is on the party offering the expert
12 testimony. That party must establish that the testimony is
13 admissible. Moore versus Ashland Chemical, 151 F.3d 269, 276,
14 Fifth Circuit 1998 en banc, cert. denied.

15 Reliability and validity do not require
16 certainty but must be demonstrated by the evidence that the
17 knowledge is more than speculation. Daubert 509 U.S. at 590.

18 The Court must consider the validity of the
19 scientific principles used, the accuracy of the data relied on
20 by the expert, and the correctness of the application of the
21 scientific principles to the relevant data. See Watkins, 121
22 F.3d at 989 and Marcel versus Placid Oil, 11 F.3d 563, 567,
23 Fifth Circuit 1994.

24 In determining reliability of proffered
25 scientific evidence, I need to consider the following: One,

1 whether the theory or procedure has been subjected to testing;
2 two, whether it has been subjected to peer review and
3 publication; three, the rate of error and the existence of
4 standards controlling the theory or procedure; and, four,
5 whether it has attained general acceptance. See Watkins, 121
6 F.3d at 989.

7 The Tanner case for the record is at 174 F.3d
8 542, 548.

9 I don't think there's any doubt that the
10 standards apply to the testimony sought to be offered by
11 Dr. Yonovitz. The facts are very specific to each case and
12 the inquiry is one that needs to be grounded in an analysis of
13 the detailed facts and details of the opinions sought to be
14 offered. Therefore, I'm going to apply the standards.

15 I specifically find and legally conclude that
16 Mr. Joe has not established that he has the expertise that is
17 necessary for him to testify in this case. I think that may
18 be moot; but to the extent there was any question, that's my
19 finding.

20 His ability to explain the methods was not
21 sufficient to satisfy me that there was true expertise
22 involved in his analysis and he was not in a position to
23 demonstrate and has not demonstrated that he in fact is board
24 certified or a diplomate of anything. So, his expertise is,
25 in fact, in question for me.

1 Dr. Yonovitz is clearly an expert in the field
2 that he purports to work in and testify in. His expertise in
3 the acoustic and linguistic areas is clear and indeed he was
4 and has spoken at numerous scientific fora and I conclude that
5 his education, his study of the subjects of speaker
6 identification as well as other things related to speaker and
7 voice identification does give him sufficient knowledge,
8 expertise, and experience to give opinions in the proper
9 case.

10 The gatekeeping function, however, is an
11 important one. And in this case the defendant has failed to
12 establish that the evidence that he seeks to offer qualifies
13 as truly scientific. Also, the defendant fails to establish
14 that the opinions of Dr. Yonovitz will assist the jury.

15 My reasoning on that is multifaceted, but I will
16 try to summarize it. I will say that a review of all of the
17 literature provided in this record, including the standards
18 submitted today by the government of the American Board of
19 Recorded Evidence, which is apparently a subsidiary of the
20 American College of Forensic Examiners, all of those materials
21 establish that the spectral analysis in this case as well as
22 the aural, a-u-r-a-l, analysis is not the -- is not
23 appropriate for testimony before a jury.

24 I will note that Dr. Yonovitz and Mr. Joe seem
25 highly confident of their opinion that the tape that they

1 received as the exemplar and the voice from the second or
2 third generation Kell recording that they received, those
3 voices are not from the same person. And they certainly have
4 their reasons, and I can understand them.

5 I will say, as a matter of a footnote, that
6 listening to those two recordings, particularly as enhanced, I
7 can understand their view based primarily on the aural
8 analysis. However, their view is not the type of opinion that
9 is admissible in evidence for the reasons that I will explain
10 in a moment.

11 In particular, I cannot conclude that the
12 proffered comparison is scientifically valid. The American
13 Board of Recorded Evidence, which is apparently the most
14 recent standards on these things sets up a detailed set of
15 requirements for creating exemplars and then for analyzing the
16 exemplar as compared to the unknown voice. There is also a
17 requirement that the unknown tape be carefully handled and
18 that various steps be taken for evidentiary purposes that were
19 not taken in this case.

20 The handling of the Kell recording and the
21 repeated copies that were made is a factor which undermines
22 the scientific basis for comparisons to that tape. It is a
23 tape that contains enormous background noise, and the only way
24 that tape could even be of any value to someone analyzing it
25 for the aural analysis was by doing the blocking out of the

1 background noise. Dr. Yonovitz did not demonstrate to my
2 satisfaction the methods that were used to block out that
3 noise to ensure that in fact the tape was not -- that the
4 voice on the tape was not altered in a meaningful or at least
5 relevant way.

6 The American Board of Recorded Evidence
7 standards at Section 5 as well as -- no, strike that. That's
8 on something else. Section 4, teach that there has to be some
9 safeguards taken even when the original tape is digitized or
10 is analyzed through copies. I won't burden the record with
11 all of the details from this document, this set of standards.
12 They're in Government's Exhibit 7. I will say, however, that
13 there is no information in the record how the enhanced copy
14 was made, and so that's my major point. I cannot therefore
15 say that it was created in a scientifically reliable way.

16 Also, the testimony is not grounded in
17 scientific principles because the exemplar that was made was
18 created under circumstances that are somewhat outside the
19 scope of the standards of the American Board of Recorded
20 Evidence or the IAI. The evidence shows in Defendant's
21 Exhibit 7 that the defendant was to make certain statements
22 after reading the sheet.

23 The tape that I heard had him saying these
24 statements once each. The defendant testified that he needed
25 to remember the statements in order to speak them, because I

1 interpreted his comments to mean that he was not to read
2 them. It is correct under these accepted standards from the
3 IAI and the American Board, that one should not read them.
4 However, the American Board makes it clear, as I think the IAI
5 does, that the exemplar should be words that are repeated
6 several times because there is intraspeaker variation. It
7 seems to me that was not done here. The single time that he
8 spoke the words, the speed of his speech could have been
9 impacted by the difficulties he was having remembering what to
10 say. He was in an entirely different setting, namely, the
11 jail visiting room from the circumstances out in the parking
12 lot when the questioned transaction occurred. And there are
13 simply too many unknowns to make the exemplar a viable basis
14 for comparison of the Kell recording.

15 Further, the exemplar lacks sufficient breadth.
16 There was not enough information on the -- there was simply
17 not enough words that were repeated that could be compared to
18 the unknown recording, the Kell recording. The Kell recording
19 contained at best, according to Dr. Joe's, and frankly it
20 speaks for itself, while listening the tape, at best ten words
21 to make comparisons. Most of those words could not be by
22 either expert or any expert the basis of meaningful aural or
23 spectrographic comparison. The only word that was meaningful
24 was "helicopter," and then there was another four-word or
25 five-word phrase that was the subject of some debate. In

1 total that is not enough under any of the published standards
2 to make a definitive or meaningful -- scientifically
3 meaningful comparison.

4 I credit the concept that Dr. Yonovitz
5 describes, specifically that a true expert might be able to
6 make a meaningful comparison in using less than ten words, but
7 there is simply too little information here to make a
8 comparison that would have any scientific validity and he is
9 simply taking this too far for the purposes of testimony.

10 In substance, the exemplar lacks reliability and
11 scientific validity. The Kell recording was duplicated and it
12 is of questionable accuracy. And so comparing two things that
13 could contain inherent errors and bias to one another and
14 saying that they don't come -- they don't reflect the same
15 voice or the same person's voice, to me will not assist the
16 jury in any way from a scientific standpoint.

17 Second, I'm supposed to determine reliability;
18 and for the reasons that I've described as to the fact that
19 this cannot be scientifically valid, I think it is not going
20 to be reliable for the purpose of assisting the jury.
21 Frankly, I think any person could sit and listen to two tapes,
22 if they were made in a quality way or if they were comparable
23 in terms of their creation, and then make a reasoned judgment
24 about whether it is the same person on the tape -- on Tape 1
25 as on Tape 2.

1 The literature provided to us in the
2 government's exhibits, specifically Exhibits 3, 4, 5, and 6 --
3 mainly 3, 4, and 5 and it's 5A and 5B, establishes that the
4 human brain is quite adept at making voice comparisons, but
5 it's based on many things and the circumstances of the
6 comparisons is all important. All of these analyses and
7 studies have been done in a laboratory setting, and it is
8 there that the high degree of accuracy can be obtained. In
9 the forensic setting that is not the case and there is
10 absolutely no basis in the literature to give me comfort that
11 an expert can do a better job of listening to two tapes,
12 assuming the tapes were reliable themselves, a better job than
13 the jury.

14 In substance, I don't think that the aural
15 comparison requires an expert. While the expert could put
16 certain words defining characteristics of one speech over
17 another or could give opinions about intonation, pitch,
18 jitters, whatever else, that's not -- that level of detail is
19 unimportant for the purposes of this proceeding. The issue is
20 simply were the two people the same on an exemplar tape as
21 compared to the Kell tape. And in that context expert
22 testimony is simply not necessary and would not assist the
23 jury. In fact, to the extent that it were received, it would
24 confuse the jury and I think be misleading. That is the
25 substance of the literature as well, and I have seen nothing

1 to the contrary from the defense.

2 I will also note it doesn't matter in one sense
3 if there are five categories or seven categories of certainty
4 or lack thereof between identification of the tapes or
5 elimination of voices. For the purpose of evidence as opposed
6 to investigation or as opposed to just gut-level opinion or
7 even scientific opinion, the number of categories doesn't
8 matter. But what does matter is that an expert would get up
9 on a stand in front of a jury and say this is, quote, "a
10 positive elimination," giving the impression that that expert
11 was virtually certain when that phrasing is not in the
12 literature and is nothing more than a personal view based on
13 very inaccurate, very poor evidentiary foundation. And in
14 that sense, from an evidentiary standpoint, the expert should
15 not and will not be allowed to testify.

16 And I think Dr. Yonovitz knows, because of his
17 law enforcement experience, that what one can do to give leads
18 to a law enforcement agency to assist in investigations is
19 very different from what is required in a court of law before
20 a jury. Dr. Yonovitz seems to believe that when a defendant
21 offers testimony of an expert nature, it need be based on less
22 reliable foundation than when the government offers it. That
23 is not true. And in that sense I think there is a little bit
24 of a mistake of theory. And so, in conclusion, none of the
25 standards have been met, neither of the elements are met under

1 Daubert or 702, and this witness, Dr. Yonovitz, cannot testify
2 in this case.

3 I will say Dr. Yonovitz seems to know a lot
4 about what he does and if he hadn't accepted money to reach
5 the conclusions he reached or if he had done more, a deeper
6 analysis of how the material was created that he chose to
7 analyze, his testimony might have been more persuasive to me.
8 It's not the fact that he got a fee. It's the fact that he
9 purports to hold such a definite opinion way beyond the
10 standards that govern his discipline based on far less
11 information than is ordinarily acceptable. And for this
12 science to become accepted in the court of law, standards need
13 to be met; and if you can't meet the standards, the discipline
14 teaches you you do not give an opinion for the purpose of
15 testimony. Testimony like Dr. Joe -- or Mr. Joe or
16 Dr. Yonovitz want to give here will ruin, ruin the science and
17 the movement that I think he believes in and that frankly I
18 think has some merit in proper settings. So, I caution
19 experts against reaching too far to give opinions based on a
20 bases of evidence or tapes that are too unreliable. It's a
21 disservice to everyone concerned.

22 Those are my findings and conclusions.

23 I will note that the cases of -- Fifth Circuit
24 cases of Black versus Food Lion, 171 F.3d 308; Tanner I cited
25 already and there are other cases that support this result.

1 So, with that said, this hearing is closed. The experts may
2 not testify.

3 (End of Daubert hearing.)

4 ***

5 I certify that the foregoing is a correct transcript from the
6 record of proceedings in the above-entitled cause.

7 Kathy L. Metzger
8 Kathy L. Metzger
9 Official Court Reporter

8-9-00
Date

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25